

1. $\text{SPEED} = \frac{\text{DISTANCE}}{\text{TIME}}$

AVERAGE $\frac{7+9}{2} = 8$

2. $(x+5)(x-3) = x^2 - 3x + 5x - 15 =$

F $x \cdot x = x^2$

O $x(-3) = -3x$
 $5x$

L $5(-3) = -15$

$= x^2 + 2x - 15$

$$3. \left(\frac{x^{-1} y^3}{x^2 y^{-4}} \right)^4 = \quad x^{-1} = \frac{1}{x}$$

$$= \left(x^{-1-2} y^{3-(-4)} \right)^4 = \left(\underline{x}^{-3} y^7 \right)^4 =$$

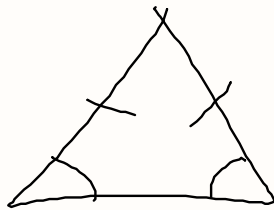
$$= \left(\frac{y^7}{\underline{x^3}} \right)^4 = \frac{y^{28}}{x^{12}}$$

4. $V = \pi R^2 H$
CYLINDER

$$V_{\text{HEMISPHERE}} = \frac{\frac{4}{3}\pi R^3}{2}$$

FORMULA
SHEET

5.



ISOSCELES TRIANGLES

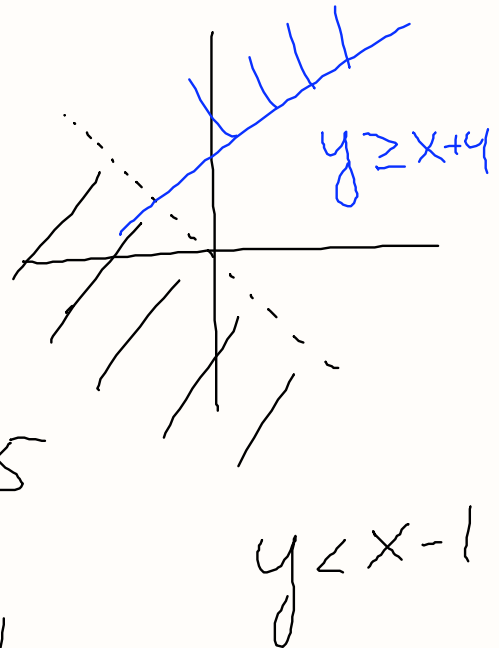
6.

$$\begin{array}{rcl} x - 5y > -3 \\ -x & & -x \end{array}$$

$$-5y > -x - 3$$

$$\div -5 \quad \div -5 \quad \div -5$$

$$y < \frac{x}{5} + \frac{3}{5}$$



7

STEM	LEAF	
2	3 4 (6)	MEDIAN
3	1 2	

2	3 4 (6 7)
3	1 2

$$\frac{26 + 27}{2} = 26.5$$

⑧

$$y = mx + \underline{\underline{b}}$$

$$\begin{array}{rcl} 4x - 5y & = & 1 \\ -4x & & -4x \end{array}$$

$$-5y = -4x + 1$$

$$\div -5 \quad \div -5 \quad \div -5$$

$$y = +\frac{4}{5}x \left(-\frac{1}{5} \right)$$

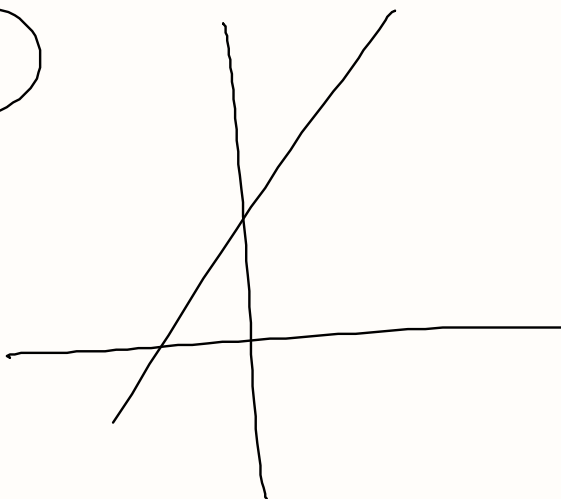
b

9



$$\frac{2}{6} = \frac{1}{3}$$

10

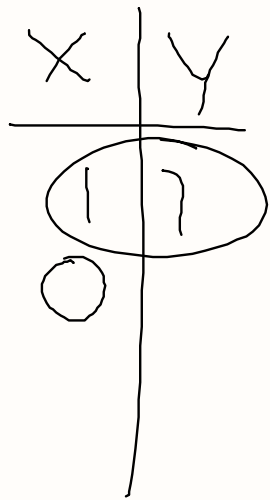


x	y
0	1
2	3

⑪

$$y_1 = x^2 - 2x + 3$$

2nd GRAPH



{1, 2}

{0, 0}

(12)

5 people

1 2 3 4 5
ER D

(1 2) 23 34 45
13 24 35
14 25
15

$\frac{1}{10}$

(14)

24

GREATEST COMMON FACTOR
AND 36

12

$$24x^3y^6$$

$$36xy^2$$

$$12xy^2$$

$$24 \cancel{x} \cancel{x} \cancel{x} \underline{y} \underline{y} \underline{y} \underline{y} \underline{y} \underline{y}$$

$$36 \cancel{x} \underline{y} \underline{y}$$

24		1	2	3	4	6
36		1	2	3	4	6

$$12$$

24

18 36

(15)

$$y_1 = 6x - 3$$

$$m_1 = 6$$

$$m_2 = -\frac{1}{6}$$

$$y_2 = -\frac{1}{6}x + \dots$$

(16)

(STAT)

$$y = \underline{ax + b}$$

$$2x - y = 11$$

$$\begin{array}{rcl} -2x & -2x & -y = -2x + 11 \\ & & y = 2x - 11 \end{array}$$

(19)

5 main dishes

3 side dishes

1 1

1 2

1 3

2 1

2 2

2 3

3 1

3 2

3 3

4 1

4 2

4 3

5 1

5 2

5 3

(15)

QUESTION (20) GRAPHING CALCULATORS, COMPARE

DOMAIN? (x)
(21) CANNOT DIVIDE BY 0

$$\frac{3}{0}$$

$$\frac{3}{2x-1}$$

$$2x-1=0$$

$$+1 +1$$

$$2x=1$$

$$x=\frac{1}{2}$$

X CANNOT BE $\frac{1}{2}$

IS NOT EQUAL

$$(23) \quad \frac{x}{7} = \frac{x-3}{4}$$

$$4x = 7(x-3)$$

$$4x = 7x - 21$$

$$-7x \quad -7x$$

$$-3x = -21$$

$$\underline{x = 7}$$

(25)

$y_1 = \dots$

2nd GRAPH

y_2

y_3

y_4

(26) GRAPH.

STAT

L₁

STAT

CALC

ENTER

Q₁

Q₃

IQR = Q₃ - Q₁

INTERQUARTILE RANGE

(27)

$$x^2 - 5x + 6 = 0.$$

$$(-3)(-2) = 6.$$

$$-3 + -2 = -5$$

$$(x-2)(x-3) = 0$$

OR FOLLOW
ANSWERS

29) TRY TO FACTOR (27)

$$\begin{array}{r} (x^2 - 9x + 14) \\ \hline (x - 2) \end{array} \quad \begin{array}{r} \cancel{(x-2)}(x-7) \\ \hline \cancel{(x-2)} \end{array}$$

$$\begin{array}{r} (x^2 + 6x + 8) \\ \hline (x + 4) \end{array} \quad \begin{array}{r} (x+2)(x+4) \\ \hline \cancel{(x+4)} \end{array}$$

$$= \frac{x-7}{x+2}$$

(30)

$$\frac{7^2 + 3}{5 \cdot 4 - 1} = (7^2 + 3) \div (5 \cdot 4 - 1)$$